

**ADAPTIVE CHANNEL ALLOCATION IN A FREQUENCY DIVISION MULTIPLEXED SYSTEM**

Publication number: JP11508417 (T)

Publication date: 1999-07-21

Inventor(s):

Applicant(s):

Classification:

- International: H04J11/00; H04L5/02; H04L27/26; H04W16/10; H04J11/00;  
H04L5/02; H04L27/26; H04W16/00; (IPC1-7): H04Q7/36;  
H04J11/00

- European: H04W16/10; H04L5/00A2A1; H04L5/00C1; H04L5/00C4;  
H04C7/38C4

Application number: JP199605037927 19960620

Priority number(s): WO19965E00814 19960620; US19950493489 19950622

## Also published as:

WO9701256 (A1)

US5726978 (A)

JP3850878 (B2)

FI974555 (A)

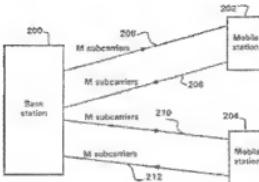
EP0882377 (A1)

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Abstract not available for JP 11508417. (T)

Abstract of corresponding document: WO 9701256 (A1)

A method and system of adaptive channel allocation in a frequency division multiplexed system is provided. In the method and system, a subset of M subcarriers is chosen from a larger set of N subcarriers available for communications on a link. As communications take place on the link, signal quality (C/I) measurements (342) on the subcarriers of the subset of M subcarriers and interference (I) measurements (344) on the subcarriers of the group of N subcarriers are periodically performed. The C/I and I measurements are then used to reconfigure (422) the subset of M subcarriers to reduce co-channel interference on the link.

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